

## **ABSTRACT OF THE DISCLOSURE**

The present invention relates to a secure optical communication scheme. The differential delay  $D$  in an unbalanced Mach-Zehnder interferometer results in two copies of the optical source signal at a remote phase modulator separated in time by  $D$ . As  $D$  is much bigger than the coherence time source, the two copies of the signal are effectively uncorrelated both signals are phase-modulated by the remote sender's data and returned to the unbalanced interferometer. The phase modulator will be converted into amplitude modulation by the auction of the interferometer.